

REMARKS

Claims 1-23 are pending. Claims 24-46 have been added for the examiner's consideration. Please enter the new claims prior to examining the above referenced application. Thus, claims 1-46 are pending.

Claims 1-7, 10-16, 19, 21 and 23 have been amended to include limitations regarding CDMA as suggested in the advisory action dated June 18, 2002, and claims 4 and 11-18 were otherwise amended for clarity reasons and not for reasons pertaining to patentability. Thus claims 1-23 are in condition for allowance.

Respectfully submitted,

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1. (Amended) A method to determine a cellular communication base station (BS) antennae array weight set corresponding to a subscriber unit (SU), comprising:

transmitting a plurality of CDMA pilot downlink signals from the BS to the SU, each pilot downlink signal processed with a different weight set than the other pilot downlink signals;

receiving a report signal for at least one of the pilot downlink signals; and

selecting a weight set from the plurality of weight sets based, at least in part, on the received report signal.

2. (Amended) The method of Claim 1 wherein a first one of said CDMA pilot downlink signals includes a first identifier.

3. (Amended) The method of Claim 2 wherein a second of said CDMA pilot downlink signals includes a second identifier that is different from said first identifier.

4. (Amended) The method of Claim 3 wherein said first and second identifiers identify a first and second BS, said second BS being [displaced] located from said first BS by a distance sufficient to assure that the CDMA pilot downlink signal transmitted by the first BS and containing [said second identifier] either of the first and second identifiers will not interfere with communications between said second BS and said SUs currently communicating with said second BS.

5. (Amended) The method of Claim 3 wherein said first CDMA pilot downlink signal identifies a first BS and wherein said SU also receives a third CDMA pilot downlink

signal from a second BS, said SU generating and transmitting one of said report signals to said first BS, said report signal indicating the signal strength of said third CDMA pilot downlink signal and wherein said first BS determines whether to handoff said SU to said second BS based on the signal strengths reported for said first, second, and third CDMA pilot signals.

6. (Amended) The method of Claim 3 wherein said cellular communication conforms to a cellular standard in which each SU automatically monitors each of a plurality of CDMA pilot downlink signals in a set of CDMA pilot downlink signals defined in messages sent by said first BS to said SU, said SU generating one of said report messages when said SU determines that one of said CDMA pilot downlink signals in said set of CDMA pilot signals has a signal quality that exceeds a threshold value, said report message identifying said CDMA pilot downlink signal.

7. (Amended) The method of Claim 6 wherein said cellular standard is IS-95 and wherein said set of CDMA pilot downlink signals comprises one of said Candidate Set, Neighbor Set, or Remaining Set as defined in that standard.

10. (Amended) An article of manufacture containing a machine-readable medium having stored thereon data representing sequences of instructions which, when executed by a processor, cause the processor to perform operations comprising:

transmitting a plurality of CDMA pilot downlink signals from a BS to a SU, each pilot downlink signal processed with a different weight set from the other pilot downlink signals;

receiving a report signal for at least one of the pilot downlink signals; and

selecting a weight set from the plurality of weight sets based, at least in part, on the received report signal.

11. (Amended) The [machine-readable medium] article of claim 10, wherein a first one of the CDMA pilot downlink signals includes a first identifier.

12. (Amended) The [machine-readable medium] article of claim 11, wherein a second of the CDMA pilot downlink signals includes a second identifier that is different from the first identifier.

13. (Amended) The [machine-readable medium] article of claim 12, wherein the first and second identifiers identify a first and second BS[s], the second BS being [displaced] located from the first BS by a distance sufficient to assure that the CDMA pilot downlink signal transmitted by the first BS and containing [the second identifier] either of the first and second identifiers will not interfere with communications between the second BS and the SUs currently communicating with the second BS.

14. (Amended) The [machine-readable medium] article of claim 12, wherein the first CDMA pilot downlink signal identifies a first BS and wherein the SU also receives a third CDMA pilot downlink signal from a second BS, the SU generating and transmitting one of the report signals to the first BS, the report signal indicating the signal strength of the third CDMA pilot downlink signal and wherein the first BS determines whether to handoff the

SU to the second BS based on the signal strengths reported for the first, second, and third CDMA pilot signals.

15. (Amended) The [machine-readable medium] article of claim 12, wherein the cellular communication conforms to a cellular standard in which each SU automatically monitors each of a plurality of CDMA pilot downlink signals in a set of CDMA pilot downlink signals defined in messages sent by the first BS to the SU, the SU generating one of the report messages when the SU determines that one of the CDMA pilot downlink signals in the set of CDMA pilot signals has a signal quality that exceeds a threshold value, the report message identifying the CDMA pilot downlink signal.

16. (Amended) The [machine-readable medium] article of claim 15, wherein the cellular standard is IS-95 and wherein the set of CDMA pilot downlink signals comprises one of a Candidate Set, Neighbor Set, or Remaining Set.

17. (Amended) The [machine-readable medium] article of claim 10, having stored thereon data representing sequences of instructions which, when executed by a processor, cause the processor to further perform the operation comprising:

determining whether to hand off the SU to a second BS based, at least in part, on the received report signal.

18. (Amended) The [machine-readable medium] article of claim 17, having stored thereon data representing sequences of instructions which, when executed by a processor, cause the processor to further perform the operation comprising:

sending an estimate of the weight set to be used after handoff to the second BS.

19. (Amended) An apparatus comprising:

receive signal circuitry for connecting with an array of antennae, to receive at least one report signal, the report signal corresponding to at least one CDMA pilot signal ; and

a transmit weight processor, coupled with the receive signal circuitry, to determine a weight set applied to a downlink signal based, at least in part, on the received report signal[;].

21. (Amended) The apparatus of claim 20, wherein the downlink signal is a CDMA pilot signal.

23. (Amended) The apparatus of claim 20, further comprising:

a pilot signal processor, coupled with the transmit circuitry, to generate a plurality of CDMA pilot signals.